

ALPHA MAGNETIC SPECTROMETER (AMS) ACCEPTANCE DATA PACKAGE

for

AMS COLLABORATION HARDWARE

Acceptance Data Effective through [Date]

Part Name: AMS02- RICH Subsystem/Detector: RICH AEROGEL PANEL

Part Number: RADIATOR_001 Serial Number: 001

ADP Tracking Number:

CIEMAT, Avd. Complutense, 22 - 28040 (Madrid), Telf: 91-346.60.00/01, Fax: 91-346.60.05 (central)

ALPHA MAGNETIC SPECTROMETER (AMS)

ACCEPTANCE DATA PACKAGE

FOR

PART NAME:

AMS02-RICH

PART NUMBER:

RADIATOR_001

SERIAL NUMBER:

001

ALPHA MAGNETIC SPECTROMETER (AMS) MAJOR COMPONENT PRE-INTEGRATION CHECKLIST

AMS	02 – AEROGEL PANEL RICH		RADIATOR_001	001
	ITEM NAME	CI NO.	PART NUMBER	SERIAL NUMBER
NAS	following checklist must be completed A provided Payload Integration Hardwa oved by all parties.			
	All integration plans and procedures	NTEGRATION REVIEW IT have been completed a	_	
	All hardware, including interface fast	eners, is available for in	tegration.	
	Mechanical and electrical interfaces	have been verified agair	nst the interface control d	ocumentation.
	All applicable functional, unit-level, su	ubsystem, and qualificat	ion testing has been cond	ducted successfully.
	Integration facilities, including clean relectrical test equipment are ready a		quipment, handling fixture	es, cranes, and
	Support personnel have been adequ	ately trained and will be	available at the integration	on facility.
	Handling and safety requirements ha	ave been documented.		
	All known system discrepancies have plan.	e been identified and dis	posed in accordance with	n an agreed-upon
	All previous design review success c agreed-upon plan.	riteria and key issues ha	ave been satisfied in acco	ordance with an
	The quality control organization is re-	ady to support the integ	ration effort.	
Paylo	oad Integration and Test Manager		Date	_
			_	_
Contr	actor/Supplier Quality Assurance	Date		

ALPHA MAGNETIC SPECTROMETER (AMS) HARDWARE ACCEPTANCE DATA PACKAGE INDEX PAGE

AMS	02 – AE	ROGEL P	ANEL RICH		RADIATOR_001	001			
	ITEM NAME			CI NO.	PART NUMBER	SERIAL NUMBER			
			DOCUMENT	S INCLUDED IN THIS	S DATA PACKAGE				
Υ_	<u>N</u>	N/A	SECTION		INDEX				
Х			I	HISTORICAL LOG	/NOTES/COMMENTS				
			II	WAIVERS/DEVIAT	TIONS				
			III	UNEXPLAINED A	NOMALIES REPORTED				
			IV	UNPLANNED/DEF	ERRED WORK REPORTE	ס			
			V	PREPLANNED/AS	SIGNED WORK REPORTE	D			
Χ			VI	IDENTIFICATION-	AS-DESIGNED CONFIGUR	ATION			
			VII	OPERATING TIME/CYCLE REPORTED					
			VIII	AGE SENSITIVE/I	TIME ACTION ITEMS REPO	RTED			
			IX	NON-STANDARD	CALIBRATION DATA REPO	ORTED			
			Χ	REPAIR LIMITATION	ONS DATA REPORTED				
			XI	PRESSURE VESS	SEL DATA RECEIVED				
			XII	NONFLIGHT HAR	DWARE/TEMPORARY INS	TALLATIONS			
			XVI	CERTIFICATIONS	RECEIVED				
			XVII	MSDS RECEIVED					
			ACCEPTA	ANCE DATA PACKA	GE APPROVAL				
					successfully completed or a provided Payload Integration				
Payl	oad Inte	gration and	d Test Manager		Date				
Exce 1. 2. 3.	eptions\F	Resolution	Plan (No signature re	quired if there are no	exceptions)				
I agr	ee with	the list of e	xceptions and agree	to implement the resc	llution plan as described abo	ove.			
Expe	eriment I	ntegration	and Test Manager						

ALPHA MAGNETIC SPECTROMETER (AMS) HARDWARE ACCEPTANCE DATA PACKAGE HISTORICAL LOG / NOTES / COMMENTS

AMS02 - AEROGEL PANEL RICH RADIATOR_001 001 Item Name Part Number Serial Number **MECHANICAL DOCUMENT** Incoming AP Material LIST AP Historical Record Log Sheet AP test Historical Record Log Sheet AP Container Assembly Historical Record Log Sheet AP Aerogel Assembly Historical Record Log Sheet AP NAF Assembly Historical Record Log Sheet AP Sealing Assembly Table fasteners AP VIBRATION_TEST_PREDICTION_RICH-TN-CGS-003 **VIBRATION TEST PROCEDURE VIBRATION TEST REPORT**

ALPHA MAGNETIC SPECTROMETER (AMS) HARDWARE ACCEPTANCE DATA PACKAGE

HANDWANE ACCEL LANCE DATA LACKAGE

ALPHA MAGNETIC SPECTROMETER (AMS) HARDWARE ACCEPTANCE DATA PACKAGE WAIVER DEVIATION / LISTING

AMS02 – AEROGEL PANEL RICH		RADIATOR_0	01	001		
	Item Name		er :	Serial Number		
Waiver /		Affected				
Deviation Number	Part Name	P	art Number	Serial Number		
1						

ALPHA MAGNETIC SPECTROMETER (AMS) HARDWARE ACCEPTANCE DATA PACKAGE UNEXPLAINED ANOMOLIES RECORDS

AMS02 – AEROG	RADIATOR_	001	001 Sorial Number						
item i	Name	Part Numb	per Se	Serial Number					
Nonconformance	Affected								
Record Number	Part Name		Part Number	Serial Number					

ALPHA MAGNETIC SPECTROMETER (AMS) HARDWARE ACCEPTANCE DATA PACKAGE UNPLANNED / DEFERRED WORK

AMS02 - AEROGEL PANEL RICH

RADIATOR_001

001

AMOUT ALTO GLET AMEL MOT				001		
Iten	n Name	Part Number		Serial Number		
Dort Number or Specification	Serial	Description of Lindonned / Deformed Work	Inspection and Test / Retest Requirements			
Part Number of Specification	art Number or Specification Number Description of Unplanned / Deferred Work	Test Procedures	Requirement Paragraph Numbe			

ALPHA MAGNETIC SPECTROMETER (AMS) HARDWARE ACCEPTANCE DATA PACKAGE PREPLANNED / ASSIGNED WORK

AMS02 - AEROGEL PANEL RICH

RADIATOR_001

001

Item Name	-	Part Number	Serial Number
Authorizing Work Document Identification	Description of Preplanned / Assigned Work	In	spection and Test / Retest Requirements
Document Identification	Preplanned / Assigned Work	Test Proce	Requirement Paragraph Number

ALPHA MAGNETIC SPECTROMETER (AMS) HARDWARE ACCEPTANCE DATA PACKAGE

						As Designed			As Built			Rec	onciliati	on
Pai	t Inder Level		Part Number	Qty Requi red	Nomenclature	Current Dwg Rev	Unincorp orated DCN's	Part Rev (as applic able)	Serial Number / Lot-Date Code	E/ F/ L	Compon ent Ref Des	WAD	Notes	Stat us O/C
1			12-RICSYS-50.001	1	BASE PLATE	12-RICSYS-50.001		Α						
1			12-RICSYS-50.002	12	SPACER 1	12-RICSYS-50.002								
1			12-RICSYS-50.003	60	SPACER 4	12-RICSYS-50.003								
1			12-RICSYS-50.004	8	SPACER 5	12-RICSYS-50.004								
1			12-RICSYS-50.005	7	EXTERNAL LONGERON 1	12-RICSYS-50.005								
1			12-RICSYS-50.006	6	EXTERNAL LONGERON 2	12-RICSYS-50.006								
1			12-RICSYS-50.007	4	SPACER 6	12-RICSYS-50.007								
1			12-RICSYS-51.000	1	NAF SUPPORT ASSY	12-RICSYS-51.000								
1			12-RICSYS-51.001	4	INTERNAL LONGERON	12-RICSYS-51.001								
1			12-RICSYS-51.002	4	SPACER 2	12-RICSYS-51.002								
1			12-RICSYS-51.003	4	SPACER 3	12-RICSYS-51.003								
1			12-RICSYS-51.004	1	NAR CONTAINER	12-RICSYS-51.004								
2			11-RICSYS-10.002	4	VENTING THREADED BLOCK OUTLET	11-RICSYS-10.002								
2			11-RICSYS-10.003	1	NITROGEN THREADED BLOCK	11-RICSYS-10.003								
	3		11-RICSYS-10.004	4	NAF TILE 1	11-RICSYS-10.004								
	3		11-RICSYS-10.005	4	NAF TILE 3	11-RICSYS-10.005								
	3		11-RICSYS-10.006	8	NAF TILE 2	11-RICSYS-10.006								
	3		11-RICSYS-10.007	52	AEROGEL TILE 1	11-RICSYS-10.007								
	3		11-RICSYS-10.008	8	AEROGEL TILE 8	11-RICSYS-10.008								
	3		11-RICSYS-10.009	8	AEROGEL TILE 3	11-RICSYS-10.009								
	3		11-RICSYS-10.0010	4	AEROGEL TILE 4	11-RICSYS-10.0010								
	3		11-RICSYS-10.0011	8	AEROGEL TILE 5	11-RICSYS-10.0011								
	3		11-RICSYS-10.0012	8	AEROGEL TILE 12	11-RICSYS-10.0012								
	3		11-RICSYS-10.0013	4	AEROGEL TILE 7	11-RICSYS-10.0013								
	3		11-RICSYS-10.0014	1	SOFT CARPET	11-RICSYS-10.0014								
2			11-RICSYS-10.0015	3	VENTING THREADED BLOCK INLET	11-RICSYS-10.0015								
	4		11-RICSYS-10.0016	4	PMMA ACRYLIC AEROGEL	11-RICSYS-10.0016								
	4	1	11-RICSYS-10.0017	1	PMMA ACRYLIC NAF	11-RICSYS-10.0017								
	3		11-RICSYS-10.0018	4	AEROGEL PACKING	11-RICSYS-10.0018								
	3		11-RICSYS-10.0019	1	PORON SPACER	11-RICSYS-10.0019								
	4	1	11-RICSYS-10.0020	2	TEFLON BAG THREADED BLOCK	11-RICSYS-10.0020								

ALPHA MAGNETIC SPECTROMETER (AMS) HARDWARE ACCEPTANCE DATA PACKAGE

OPERATING TIME / CYCLE

AMS02 – AEROGEL PANEL RICH	RADIATOR_001	001
Item Name	Part Number	Serial Number

Time / Cycle	Ouriel			Operati	ng Time			Cycle		
	Dant Niveshau	Serial Number		Allowable			Remainin	g	Allowable	Remaining
Part Name	Part Number	Number	Hrs.	Min.	Sec.	Hrs.	Min.	Sec.		

ALPHA MAGNETIC SPECTROMETER (AMS) HARDWARE ACCEPTANCE DATA PACKAGE OPERATING TIME / CYCLE

AMS02	RADIATOR_001				001						
Item Name						Part No	umber		Serial	Number	
Time / Cycle	Time / Cycle				Operating Time					Cycle	
Part Name	Part Number	Serial		Allowable			Remainin	g	Allowable	Remaining	
Fait Name	Part Number	Number	Hrs.	Min.	Sec.	Hrs.	Min.	Sec.			

ALPHA MAGNETIC SPECTROMETER (AMS) HARDWARE ACCEPTANCE DATA PACKAGE AGE-SENSITIVE / TIME-ACTION ITEMS

AMSU2 - AEROGEL PANEL RICH	RADIATOR_001	001
Item Name	Part Number	Serial Number

item Name			Part Number	5	Seriai Number		
Part Name	Part Number	Serial Number	Birth Date	Action Due Date	Required Action	Last Operational and / or Servicing Date	Operational and / or Servicing Due Date

ALPHA MAGNETIC SPECTROMETER (AMS) HARDWARE ACCEPTANCE DATA PACKAGE NONSTANDARD CALIBRATION RECORD

AMS0		EL PANEL I	RICH		OR_001		001
	Item I	Name		Part N	lumber	Se	erial Number
PART NAME				PART NUMI	BER		
SERIAL NUMBE	R			MEAS. NUM	IBER		
RANGE (ENG	UNITS)	EXCITAT	TION VOLTS +/-	UNITS ST (ENG U			JT VOLTS OR SISTANCE
	RUN N	JMBER 1			RUN N	IUMBER 2	2
TEMP. ENV		DATE		TEMP. EN	V	DATE	
STIMULUS		IO. UNITS JLL SCALE	OUTPUT VOLTS OR RESISTANCE	STIMULUS		O. UNITS LL SCALE	OUTPUT VOLTS OR RESISTANCE
	1		1	1	1		1

ALPHA MAGNETIC SPECTROMETER (AMS) HARDWARE ACCEPTANCE DATA PACKAGE REPAIR LIMITATIONS

AMS02 – AEROGEL PANI	EL RICH		RADIATOR	001	
Item Name			Part Num	ber	Serial Number
TYPE OF REPAIR	REPAIR	LIMITATION REQIURE			MENT SOURCE
				IDENTIFICA	ATION METHOD
PART NAME	PART NUMBER	SERIAL/LOT NUMBER	PHYSIC	CAL LOCATION	TIMES REPAIRED

ALPHA MAGNETIC SPECTROMETER (AMS) HARDWARE ACCEPTANCE DATA PACKAGE PRESSURE VESSEL DATA

AMS02 – AEROGEL PANEL RICH				RA	RADIATOR_001				001			
Item Name					Part Number				Serial Number			
PART NAME				PART NUME	3ER			SERI	AL NUM	BER		
LIMITED LIFE		THRESHO	OLD PRE	SSURE (PSID)				D/	ATE INS	STALLED		
PRESSURE LIMITATINS:	TP: OP:	PP:		CYCLE LIMITA	TIONS:	MOPO	D :		PPC:			
	TEST NAME	TYPE OF		PEAK	MINIMUM	TIME			СИМ	TOTALS	QC/OPER	
FACILITY	(PROOF PRESS, LEAK TEST)	PRESSURANT	DATE	PRESSURE	PRESSURE	HRS	MIN	CYC	TIME	CYCLES	STAMP	
						Τ						
THIS PRESSURE VESSEL IS CERTIFIED TO MEET ALL CONTRACT REQUIREMENTS, UNLESS OTHERWISE NOTED, AND IS												
ACCEPTABLE FOR FLIGHT OR GSE USE.												
DATE CONTRACTOR/SUPPLIER SIGNATURE												

ALPHA MAGNETIC SPECTROMETER (AMS) HARDWARE ACCEPTANCE DATA PACKAGE NONFLIGHT HARDWARE / TEMPORARY INSTALLATIONS

Al	MS02 – AEROGEL PANEL RICH Item Name		OR_001	001 Serial Number	
		Part Number			
STREAMER/TAG NUMBER	PART NAME	PART NUMBER	SERIAL NUMBER	PHYSICAL LOCATION	REMOVAL EVENT

ALPHA MAGNETIC SPECTROMETER (AMS) HARDWARE ACCEPTANCE DATA PACKAGE CERTIFICATIONS

AMS02 – AEROGEL PANEL RICH		RADIATOR_001	001
ITEM NAME	CI NO.	PART NUMBER	SERIAL NUMBER

Attached documented evidence attesting to the fact the delivered hardware meets specified requirements (i.e., proof load, proof pressure, cleanliness, flight, etc.). Supporting documentation [e.g. Verification Completion Notices (VCNs)], shall be available for review. Certifications and references to supporting records include qualification test procedures, certification analysis, vendor data, justifications for variances from vendor specifications, certification inspections procedures for all design requirements and acceptance requirements.

CERTIFICATIONS INCLUDED IN THIS DATA PACKAGE

Υ	N	N/A	ITEM ID	INDEX
			А	Qualification Test Procedures
			В	Certification Analysis
			С	Vendor-supplied Data Sheets
			D	Justifications for variances from vendor specifications and any records of approval
			E	Certification inspection procedures for all design requirements and acceptance requirements
			F	Log of all hardware with corresponding references to certification records for all devices with stored energy (i.e. pressure vessels, capacitors, batteries)
			G	Log of hazardous chemical and materials with corresponding references to certification records

ALPHA MAGNETIC SPECTROMETER (AMS) HARDWARE ACCEPTANCE DATA PACKAGE MSDS DATA

AMS02	- AEROGEL PANEL RIC	RADIATOR_001	001	
	Item Name		Part Number	Serial Number
CHEMICAL/COMMON NAME	PHYSICAL PROPERTIES	HAZARDS OR OTHER RISKS	SAFE HANDLING	ENGINEERING PROBLEMS